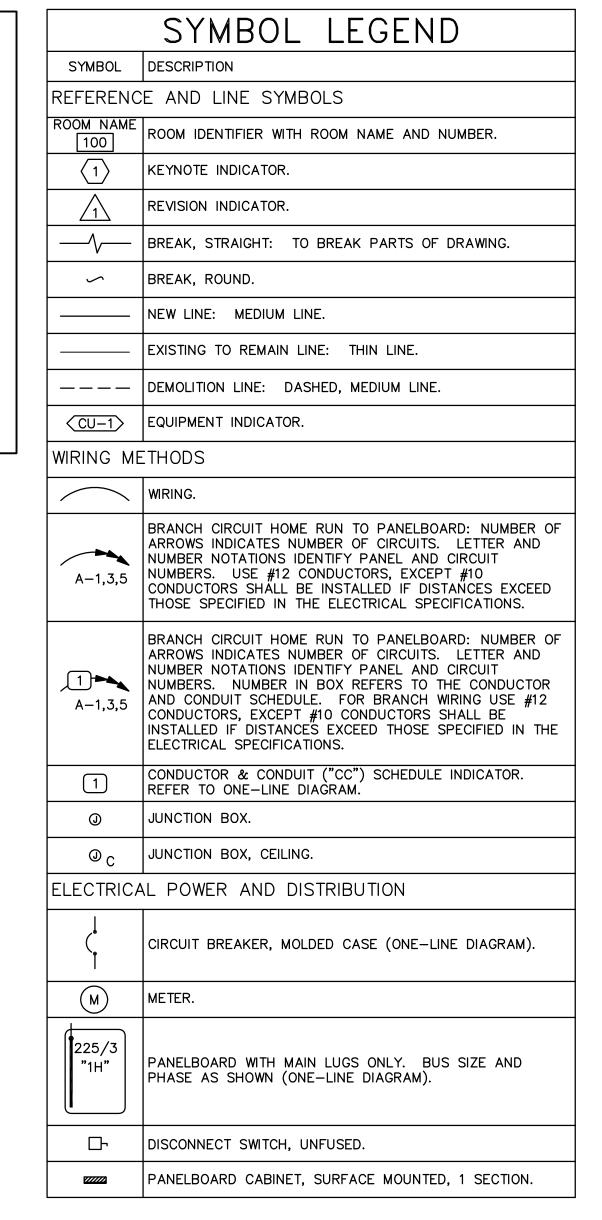


ONE-LINE DIAGRAM



	SYMBOL LEGEND
SYMBOL	DESCRIPTION
WIRING DE	EVICES
ф	RECEPTACLE, DUPLEX: NEMA 5-20R.
#	RECEPTACLE, QUAD: NEMA 5-20R.
₩Д	RECEPTACLE, DUPLEX, ABOVE COUNTER: NEMA 5-20R.
#	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.
₩ _P	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF: NEMA 5-20R.
₩ _{DF}	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, DRINKING FOUNTAIN: CONCEAL WATER COOLER RECEPTACLE BEHIND WATER COOLER. SEE MECHANICAL/PLUMBING SHOP DRAWINGS FOR INSTALLATION REQUIREMENTS.
* \$	SWITCH, SINGLE POLE ("x" INDICATES FIXTURES CONTROLLED).
X \$3	SWITCH, THREE-WAY ("x" INDICATES FIXTURES CONTROLLED).
X \$4	SWITCH, FOUR-WAY ("x" INDICATES FIXTURES CONTROLLED).
\rightarrow	EQUIPMENT CONNECTION (HARDWIRED)
LIGHTING	(REFER TO FIXTURE SCHEDULE FOR SYMBOLS)
(W-3)	FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
(W-3)	FIXTURE IDENTIFICATION, EMERGENCY WITH BATTERY PACK, CONNECTED TO GENERATOR AS INDICATED: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
ЕМ	EMERGENCY.
NL	NIGHT LIGHT: DO NOT SWITCH.
⊗ ⊛	EXIT SIGN (FACES AND ARROWS AS SHOWN ON DRAWINGS)
↑	EGRESS DIRECTION ARROW.
LIGHTING	CONTROL
*	OCCUPANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
€	OCCUPANCY SENSOR, DUAL TECHNOLOGY, DIRECTIONAL.
STRUCTU	RED CABLING
ΔM	TELEPHONE, WALL MOUNTED: WALL PHONE.
V	OUTLET, BUILDING STANDARD COMBINATION TELEPHONE/DATA COMMUNICATION.
	TELEPHONE TERMINAL BOARD, FIRE TREATED PLYWOOD PAINTED.
FIRE ALAI	RM
Р	FIRE ALARM MANUAL PULL STATION.
<u> </u>	DETECTOR, SMOKE.
	DETECTOR, SMOKE, DUCT WITH HOUSING AND SAMPLING TUBE.
	L

	SYMBOL LEGEND										
SYMBOL	DESCRIPTION										
WIRING DI	EVICES										
#	RECEPTACLE, DUPLEX: NEMA 5-20R.										
#	RECEPTACLE, QUAD: NEMA 5-20R.										
₩Д	RECEPTACLE, DUPLEX, ABOVE COUNTER: NEMA 5-20R.										
\oplus	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT NTERRUPTER: NEMA 5—20R.										
₩ _{WP}	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF: NEMA 5-20R.										
₩ _{DF}	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, DRINKING FOUNTAIN: CONCEAL WATER COOLER RECEPTACLE BEHIND WATER COOLER. SEE MECHANICAL/PLUMBING SHOP DRAWINGS FOR INSTALLATION REQUIREMENTS.										
* \$	SWITCH, SINGLE POLE ("x" INDICATES FIXTURES CONTROLLED).										
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X \$4	SWITCH, FOUR-WAY ("x" INDICATES FIXTURES CONTROLLE										
-	EQUIPMENT CONNECTION (HARDWIRED)										
LIGHTING	(REFER TO FIXTURE SCHEDULE FOR SYMBOL										
(W-3)	FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.										
(W-3)	FIXTURE IDENTIFICATION, EMERGENCY WITH BATTERY PACK CONNECTED TO GENERATOR AS INDICATED: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.										
EM	EMERGENCY.										
NL	NIGHT LIGHT: DO NOT SWITCH.										
⊗ ⊛	EXIT SIGN (FACES AND ARROWS AS SHOWN ON DRAWINGS										
↑	EGRESS DIRECTION ARROW.										
LIGHTING	CONTROL										
冰	OCCUPANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.										
< ॐ	OCCUPANCY SENSOR, DUAL TECHNOLOGY, DIRECTIONAL.										
STRUCTU	RED CABLING										
Δ_{M}	TELEPHONE, WALL MOUNTED: WALL PHONE.										
7	OUTLET, BUILDING STANDARD COMBINATION TELEPHONE/DATA COMMUNICATION.										
	TELEPHONE TERMINAL BOARD, FIRE TREATED PLYWOOD PAINTED.										
FIRE ALA	RM										
Р	FIRE ALARM MANUAL PULL STATION.										
2	DETECTOR, SMOKE.										
	DETECTOR, SMOKE, DUCT WITH HOUSING AND SAMPLING TUBE.										

ABBREVIATIONS 1. CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, NOTE: ALL ABBREVIATIONS MAY NOT BE USED. DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR KILOVOLT SINGLE POLE FUNCTION OF THE EQUIPMENT, ETC. SHALL BE SUBMITTED TO THE SINGLE-PHASE KVA KILOVOLT AMPERE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO kVAR KILOVOLT AMPERE ONE-WAY ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT **REACTIVE** WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE TWO-CONDUCTOR KILOWATT TWO-WAY MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST KILOWATT HOUR THREE-CONDUCTOR COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE LIGHT EMITTING DIODE THREE-PHASE ENFORCED. LFMC LIQUID TIGHT FLEXIBLE THREE-WAY METAL CONDUIT QUADRUPLE RECEPTACLE 2. OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND LFNC LIQUID TIGHT FLEXIBLE OUTLET EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE FOUR-POLE DOUBLE NONMETALLIC CONDUIT INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE LOW PRESSURE SODIUM INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF LRA LOCKED ROTOR AMPS FOUR-POLE SINGLE REQUIRED, AND INSTALLATION ARE INCLUDED IN THE CONTRACT SUM. LTG LIGHTING THROW FOUR-WIRE LOW VOLTAGE A. THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE **IMATV** MASTER ANTENNA FOUR-WAY INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT. TELEVISION SYSTEM ABOVE COUNTER l MAX MAXIMUM ARMORED CABLE B. THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER METAL CLAD AMERICANS WITH FURNISHED ITEMS FREIGHT ON BOARD JOB SITE AND THE INSTALLER МСА MINIMUM CIRCUIT AMPS DISABILITIES ACT WILL INSPECT DELIVERIES FOR DAMAGE. IF OWNER FURNISHED MCB MAIN CIRCUIT BREAKER ADJACENT ITEMS ARE DAMAGED. DEFECTIVE OR MISSING. DOCUMENT DAMAGED мсс MOTOR CONTROL CENTER ABOVE FINISHED FLOOR ITEMS WITH THE TRANSPORT COMPANY AND THE OWNER WILL MCP MOTOR CIRCUIT ABOVE FINISHED GRADE ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE AMPERE INTERRUPTING PROTECTION FOR MANUFACTURER'S FIELD SERVICES, AND THE DELIVERY OF MAIN DISTRIBUTION MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER. CAPACITY **ALUMINUM** MOTOR GENERATOR AMPERE

MANHOLE

PROTECTION

MAIN LUGS ONLY

NOT APPLICABLE

MANUFACTURERS

ASSOCIATION

NATIONAL FIRE

NIGHT LIGHT

ON CENTER

PROTECTION

OVERLOAD

PHASE

PANEL

QUANTITY

REMOVE

CONDUIT

PUSHBUTTON

POWER FACTOR

PAN/TILT/ZOOM

NORMALLY CLOSED

NATIONAL ELECTRICAL

NATIONAL ELECTRICAL

NATIONAL FIRE CODE

NOT IN CONTRACT

NORMALLY OPEN

NOT TO SCALE

OVER CURRENT

OWNER FURNISHED/

OWNER FURNISHED/ OWNER INSTALLED

OBTAIN FROM PLANS

OVERHEAD (COILING)

CONTRACTOR INSTALLED

POTENTIAL TRANSFORMER

REFLECTED CEILING PLAN

REVOLUTIONS PER MINUTE

REMOVE AND RELOCATE

SHORT CIRCUIT AMPS

STANDARD COLOR AS

SQUARE FOOT (FEET)

STANDARD FINISH AS

SINGLE POLE, DOUBLE

SINGLE POLE, SINGLE

SPECIFICATION

START/STOP

SWITCHBOARD

SWITCHGEAR

TWIST LOCK

BOARD

TYPICAL

VOLTS

WITH

TELEVISION

UNDERFLOOR

VOLT AMPERE

WEATHERPROOF

TRANSFORMER

VFC/VFD VARIABLE FREQUENCY

WITHOUT

UNDERGROUND

SINGLE THROW

TELEPHONE POLE

TELEPHONE TERMINAL

TRANSIENT VOLTAGE

SURGE SUPPRESSER

MOTOR CONTROLLER

UNINTERRUPTIBLE POWER

TWISTED PAIR

SELECTED BY ARCHITECT

SELECTED BY ARCHITECT

RIGID METAL CONDUIT

RIGID NONMETALLIC

PROTECTION ASSOCIATION

MAXIMUM OVERCURRENT

MINIMUM

MLO

MOCP

NEC

NEMA

OCP

OH DR

RCP

SCBA

SFBA

SPST

TTB

TVSS

UGND

UPS

XFMR

1WAY

2WAY

3WAY

40UT

4PDT

4PST

4WAY

AFG

ALUM

ANNUNCIATOR

ACCESS POINT

AS REQUIRED

AUDIO VISUAL

TRANSFORMER

TELEVISION

TELEVISION

CIRCUIT

CONDUIT

COPPER

FACH

TUBING

EMERGENCY

EQUIPMENT

FIRE ALARM

EXISTING

PANEL

GROUND

GENERATOR

INTERRUPTER

PROTECTION

DISCHARGE

HEAVY DUTY

GROUND FAULT

HIGH INTENSITY

HORSE POWER

HIGH VOLTAGE

INPUT/OUTPUT

JUNCTION BOX

CONDUIT

INFRARED

ISOLATED GROUND

INTERMEDIATE METAL

INSULATED/ISOLATED

EQUIP

GEN

J-BOX

CEILING MOUNTED

CIRCUIT BREAKER

CLOSED CIRCUIT

CUSTOM COLOR AS

CUSTOM FINISH AS

OWNER INSTALLED

CONVENIENCE OUTLET

REPRESENTATIVE

CONTROL PANEL

CABLE TELEVISION

CONTRACTING OFFICER'S

CURRENT TRANSFORMER

UNIT OF SOUND LEVEL

DOUBLE POLE DOUBLE

DISCONNECT SWITCH

ELECTRICAL METALLIC

EMERGENCY POWER OFF

FURNITURE MOUNTED

FIRE ALARM CONTROL

FLEXIBLE METALCONDUIT

GROUND FAULT CIRCUIT

HAND-OFF-AUTOMATIC

HIGH PRESSURE SODIUM

HIGH POWER FACTOR

FULL VOLTAGE REVERSING SWBD

FULL LOAD AMPS

FREIGHT ON BOARD

FULL VOLTAGE

NON-REVERSING

ELECTRICAL NONMETALLIC | RR

SELECTED BY ARCHITECT

SELECTED BY ARCHITECT

CONTRACTOR FURNISHED,

CONTRACTOR INSTALLED

CONTRACTOR FURNISHED/

CONSTRUCTION MANAGER OFP

COMMUNITY ANTENNA

IBB XFMR BUCK-BOOST

(WIRELESS DATA)

AMPS SHORT CIRCUIT

AUTOMATIC TRANSFER

AMERICAN WIRE GAGE

I AMP

C. THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING AND HANDLING OWNER FURNISHED ITEMS AT THE SITE. THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS OPERATIONS.

GENERAL ELECTRICAL NOTES

- 3. EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE. REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.
- 4. SUBMITTALS: PROVIDE SUBMITTALS IN THREE RING BINDERS WITH JOB NAME, SUBCONTRACTOR, AND VOLUME ON THE BINDING. PREPARE TABS FOR EACH SPECIFICATION SECTION REQUIRING SUBMITTALS. PREPARE INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.
- 5. REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS. AND REQUESTS. IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

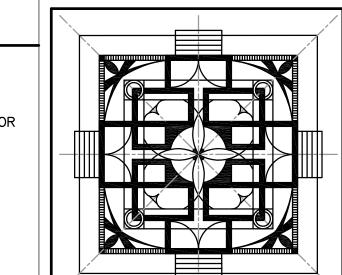
PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL. COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS,

ELECTRICAL SHEET INDEX

SHEET NO	SHEET TITLE						
E.001	SHEET INDEX, SYMBOLS, AND GENERAL NOTES						
E.002	ELECTRICAL SPECIFICATIONS						
E.101	DEMOLITION PLAN AND SCHEDULES						
E.102	LIGHTING AND POWER PLANS						
E.701	TYPICAL DETAILS						



SYMMETRY FIRST ARCHITECTS,

8600 Foundry Street Box 2069 Savage, MD 20763 240-568-0700 240-568-0354 fax www.symmetryfirst.com

STAMP

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THA THESE DOCUMENTS WERE PREPARED OR APPROVED B ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF LICENSE NO. 37060 EXPIRATION DATE: APRIL 20, 2013

OF SYMMETRY FIRST ARCHITECTS, LLC AND, AS SUCH, MAY NOT BE REPRODUCED OR RE-USED EITHER WHOLLY OR IN PART, WITHOUT PRIOR WRITTEN CONSENT OF SYMMETRY FIRST ARCHITECTS, LLC.

NOTE: THESE DRAWINGS ARE THE PROPERTY

PROJECT PHASE DOCUMENTS

PROJECT TITLE

A.D.C.**TENANT** BUILD-OUT

2001 COMMERCE PARK DR. SUITE 2001-B ANNAPOLIS, MD 21401

DEVICIONIC											
REVISIONS											
SYMBOL DATE ISSUED FOR											
	10.21.11	PERMIT REVISION									

PROJECT NUMBER	11-16
DATE	9.1.
SCALE	AS NOTE

DRAWING TITLE SHEET INDEX, SYMBOLS AND **GENERAL NOTES**

SHEET NUMBER

E.00 I

EQU	IPMENT SCHEDULE KEY
E	DIVISION 16
Q	FURNISHED WITH THE EQUIPMENT
*	COORDINATE WITH THE DIVISION 15 TEMPERATURE
	CONTROL INSTALLER
**	AUTOMATIC CONTROL WIRING BY DIVISION 15

						EQU	IPMEI	NT S	CH	HEDU	JLE											
MARK	QTY	ITEM DESCRIPTION	LOAD DATA	WIRE AND OVERCURRENT CONDUIT SIZE PROTECTION			DISCONNECT		STARTER DATA											NOTES	MARK	
			HP kW MCA FLA VOLT PH H:		FURN DEVICE LO	DCATION FU B	RN DEVICE Y	LOCATION	FURN BY	DEVICE	LOCATION	SIZE		RL SELECTOF LT SWITCH	PUSH BUTTON	PILOT LAMP	OPEN	NORMALLY CLOSED CONTACTS	FAILURE	SCHEMATIC REMOTE REFERENCE CTRL		
EF-1	1	EXHAUST FAN	0.075 0.8 0.7 115 1 60	(2) #12 AWG W/ (1) #12 GND IN 3/4" C.		PANEL E	TOGGLE SWITCH	LIGHTING SWITCH														EF-1
EF-2	2	EXHAUST FAN	0.075 0.8 0.7 115 1 60		E 20A F	PANEL E	TOGGLE SWITCH	LIGHTING SWITCH														EF-2
RTU-1	1	ROOFTOP UNIT	42.9 230 1 60			PANEL E	60A D/S	ADJ. TO UNIT	Q				12	O HOA		R/G	2	2				RTU-1
WH-1	1	WATER HEATER	1.0 115 1 60		E 20A F	PANEL E	TOGGLE SWITCH	ADJ. TO UNIT														WH-1